

Ref. (2)

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-332450

(43)Date of publication of application : 17.12.1996

(51)Int.Cl.

B05D 5/06  
 B05D 5/06  
 B05D 7/24  
 B32B 7/02  
 B32B 7/06  
 B32B 27/00  
 B32B 27/16  
 B32B 27/30  
 G02B 5/20  
 G02B 5/28  
 // B32B 15/08

(21)Application number : 08-064819

(71)Applicant : CATALINA COATINGS INC

(22)Date of filing : 21.03.1996

(72)Inventor : SHAW DAVID G  
 DAWSON ERIC  
 KLINE DANIEL  
 LANGLOIS MARC

(30)Priority

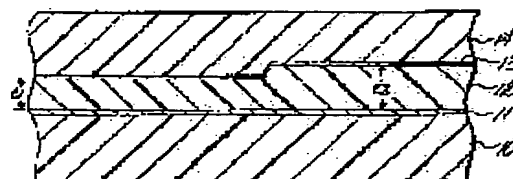
Priority number : 95 406566    Priority date : 20.03.1995    Priority country : US

## (54) MULTICOLOR INTERFERENCE COATING

(57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain a multicolor interference filter having an integration type acrylate polymer film by coagulating a specific acrylate monomer, forming a polymer film by polymerizing this acrylate and applying a reflective coating.

**SOLUTION:** A reflective interference filter is deposited on a sheet substrate 10 having a smooth surface. An opaque and reflective thin metal layer 11 is coated on the substrate. A thin layer 12 of a transparent dielectric material is coated on the reflective layer. The predetermined area of the dielectric material layer is formed with a thickness of  $t_1$ , which is different from the thickness  $t_2$  of the adjacent area. The next layer in the interference filter is a metal layer 13 having a sufficient thickness to be semitransparent. After forming an interference film having two reflective metal layers located apart by the transparent dielectric material, the thin film is protected by a deposited upper layer 14. The acrylate layer forming the dielectric material 12 of the filter is deposited preferably in a form of acrylate monomer having a ratio of molecular weight of 150-400 to acrylate group evaporated.



? s'pn=jp 8332450(s)pc=jp a

Ref. (2)

1 PN=JP 8332450  
9511285 PC=JP A (DOC. LAID OPEN TO PUBL. INSPEC. )  
S4 1 PN=JP 8332450(S)PC=JP A

? t/35

Dialog eLink Order File History

4/35/1

DIALOG(R)File 345: Inpadoc/Fam.& Legal Stat

(c) 2008 EPO. All rights reserved.

34713227 Family ID: 4713228

<No. of Patents: 12> <No. of Countries: 5>

<No. of Legal Status: 36>

Patent Basic (No, Kind, Date): CA 2172113 A1 19960921

MULTICOLOR INTERFERENCE COATING (English)  
REVETEMENT FILTRANT MULTICOLORE (French)

Patent Assignee: CATALINA COATINGS INC (US)

Author (Inventor): SHAW DAVID G (US); CLINE DANIEL S (US); DAWSON ERIC P  
(US); LANGLOIS MARC (US)

Record Type: Legal Status; Abstract; Cited Refs

\*\*\*

Patent Family:

Patent No	Kd Date	Applic No	Kd Date	Wk Added
CA 2172113	A1 19960921	CA 2172113	A 19960319	199641 (B)
CA 2235948	A1 19960921	CA 2235948	A 19960319	199902
DE 69629743	D1 20031009	DE 69629743	A 19960319	200340
DE 69629743	T2 20040701	DE 69629743	T 19960319	200426
EP 733919	A2 19960925	EP 1996301856	A 19960319	199638
EP 733919	A3 19961106	EP 1996301856	A 19960319	199644
EP 733919	B1 20030903	EP 1996301856	A 19960319	200335
JP 8332450	A 19961217	JP 199664819	A 19960321	199705
US 5877895	A 19990302	US 1995406566	A 19950320	199911
US 6010751	A 20000104	US 1997990708	A 19971215	200006
US 6264747	B1 20010724	US 1999366873	A 19990804	200131
US 20010028921	A1 20011011	US 2001850750	A 20010508	200142

Priority Data (No, Kind, Date):

US 1995406566	A 19950320
CA 2172113	A 19960319
US 1997990708	A 19971215
US 1999366873	A 19990804
US 2001850750	A 20010508

\*\*\*\*\* CANADA (CA) \*\*\*\*\*

CANADA (CA) PATENT(S):